What We Do

Empower health providers with tools to remotely treat chronic & acute multi-morbid patients.

Address the disconnect between physical and mental health treatment

We deliver an ambitious blend of A.I, ML, software, analytics & services across multiple treatment areas:

- Musculoskeletal

- Cognitive

- Neurological

- Cardiac Care

forahealthyme™
Intelligent Virtual Care Systems®
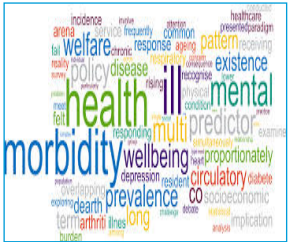
Health Problems We Address - How We Create Value

Cost of Care:
Orthopaedic, Cognitive & Neurological issues top all medical conditions in $$$ spent.

Mobility Issues:
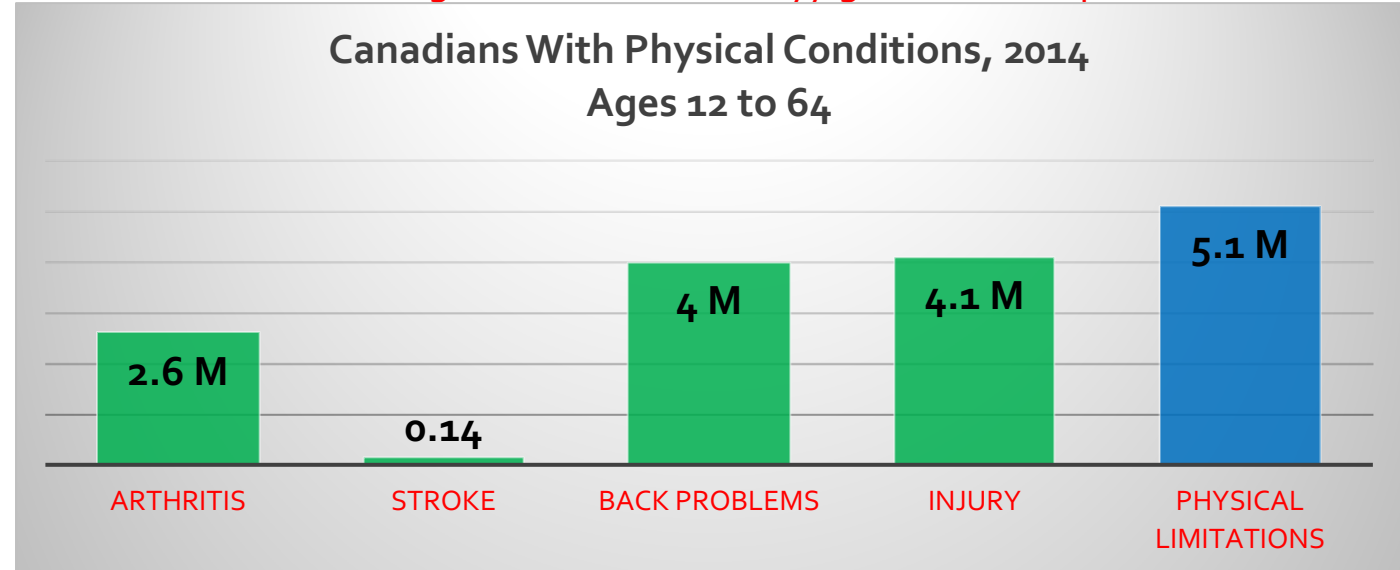Physical impairment impedes QoL & patient access to care.

Multi-morbidity :
Patients unable to function physically & Psychologically impacts outcomes.

Mental Health:
Depression & physical illness are bi-directional leads to prolonged illness.

Total $$$ spent on continuing care for seniors in Cdn. expected to increase
– From $28.3 billion in 2011 to $177.3 billion in 2046.

Canadians With Physical Conditions, 2014
Ages 12 to 64

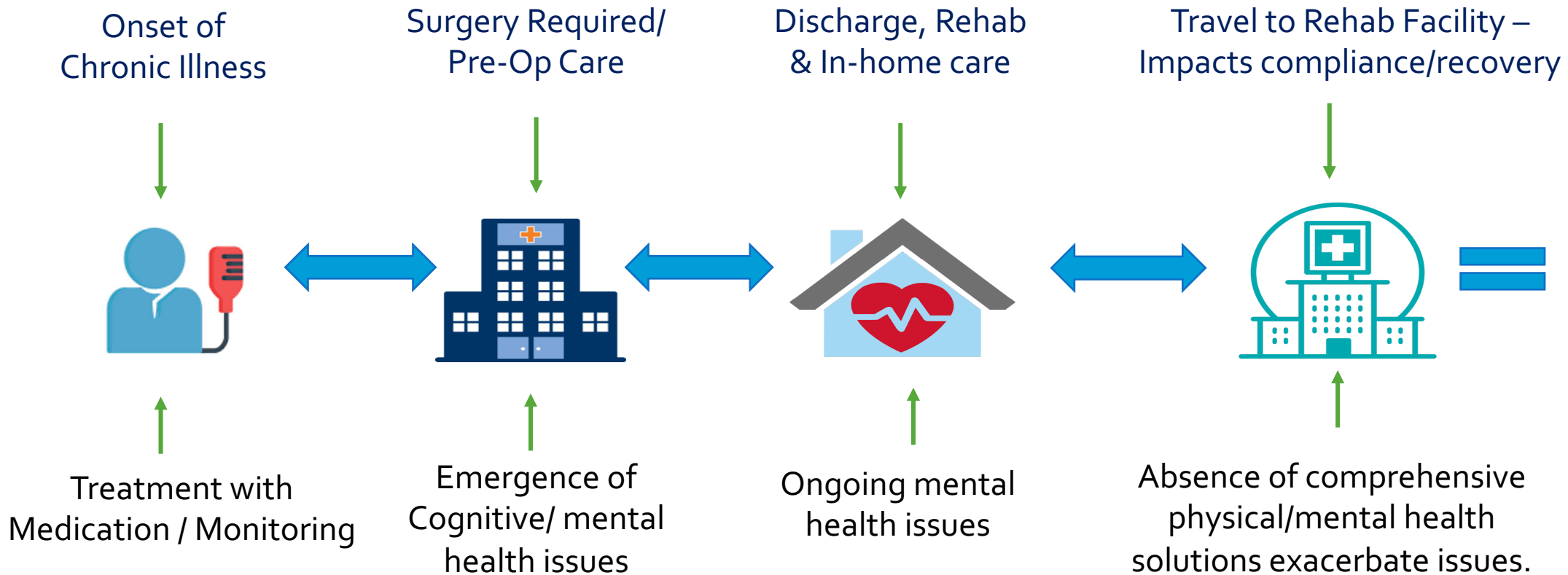| Condition	Value
ARTHRITIS	2.6 M
STROKE	0.14
BACK PROBLEMS	4 M
INJURY	4.1 M
PHYSICAL LIMITATIONS	5.1 M

Co-occurrence of two or more chronic conditions among people aged 40 years and over, by sex and province/territory.

Exercise programs have been shown to be the pillar of rehabilitate protocols for people suffering

from osteoarthritis as well as those recovering from musculoskeletal injury or a surgery,

such as knee or hip replacement.

(Owens and Conaghan, 2016; Ozdemir and Tosun, 2017; Wilk and Arrigo, 2017).
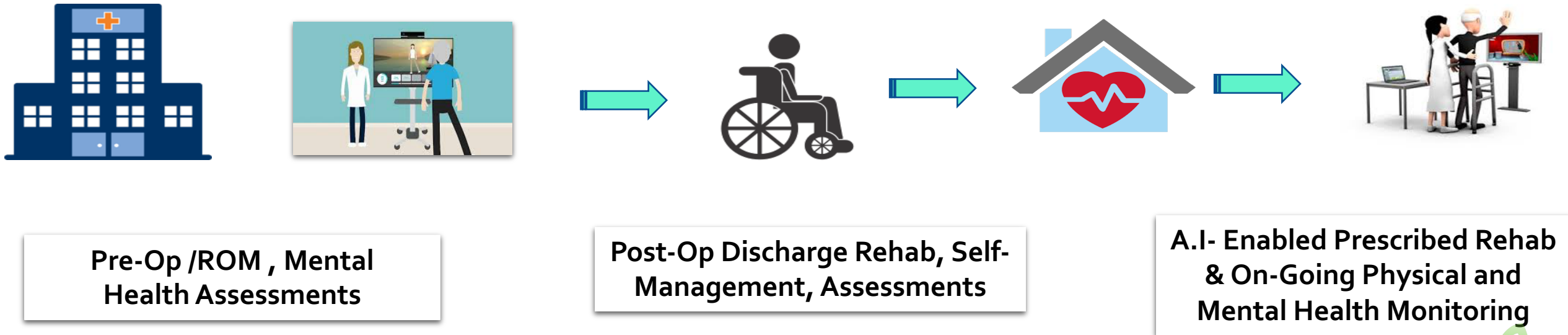
The Problem - The Current Patient Journey

Onset of Chronic Illness

Surgery Required/ Pre-Op Care

Discharge, Rehab & In-home care

Travel to Rehab Facility – Impacts compliance/recovery

Treatment with Medication / Monitoring

Emergence of Cognitive/ mental health issues

Ongoing mental health issues

Absence of comprehensive physical/mental health solutions exacerbate issues.

Impact on Caregivers, Finances, Productivity, Environment

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New Technology-Driven Care Delivery Model

Virtual Tools for Pre-Op, Cognitive & Post-Op Rehab Support

In home use by patient to enhance rehab & cost reductions

Pre-Op /ROM , Mental Health Assessments

Post-Op Discharge Rehab, Self-Management, Assessments

A.I- Enabled Prescribed Rehab & On-Going Physical and Mental Health Monitoring

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One System - Multiple Capabilities

An Integrated Intelligent Virtual Care System

Clinical Workflows-
Mental/Physical
Health

A.I & M.L-enabled
Virtual Rehab Tools
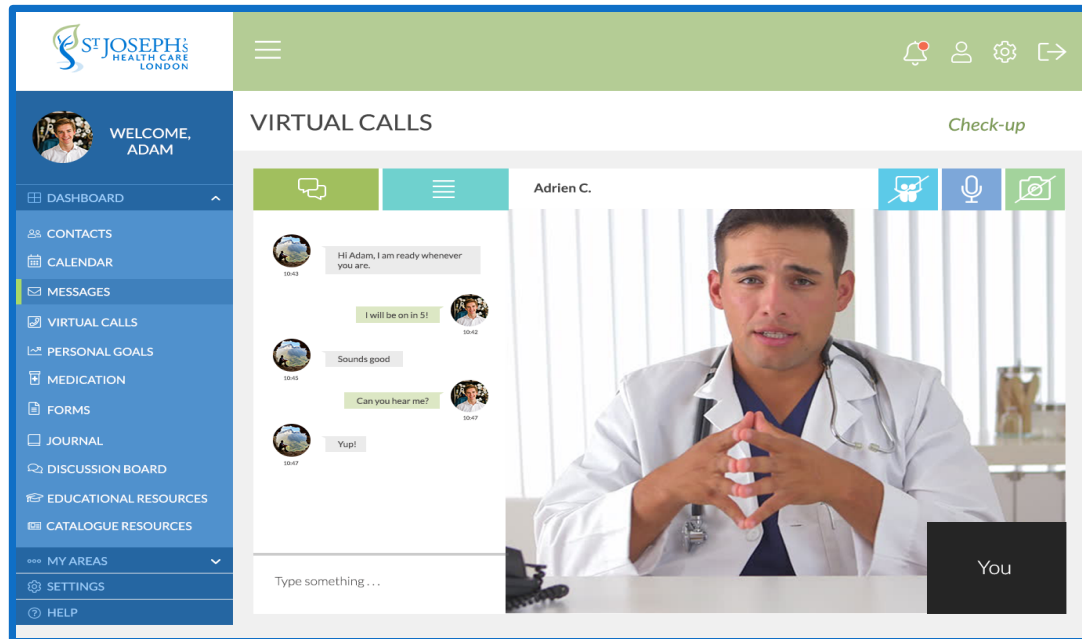using Computer Vision

Mental/Physical
Health Assessment
Tools

Virtual Consults,
Webinars & Peer to Peer
Engagement

Data for
decision & policy
making

Combines Virtual Care & Computer Vision Technologies

Enhance Care Delivery Coordination
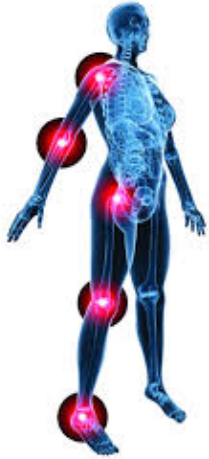### (multiple care providers remotely supporting the patient)

Result:
Remote care and services for at risk patients, those in need of rehab, with disabilities and special needs.

Tools to Support Delivery of Rehabilitation

- Computer-vision Motion Tracking and Avateering Technology to enable remote support & compliance of patients during Post-Op recovery & rehabilitation

  - Speech-enabled Virtual Assistants

Prescribed by Care Team or a physiotherapist at point of care during admission or discharge.

Artificial Intelligence & ML algorithms programmed to coach how to properly perform an activity.

System recognizes joints & makes precise calculations to output Range of Motion Data/ Video for decision making.

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Virtual Rehab Trial Results Sample – Elderly Individuals

Validation of a model of care that is patient-centric, more cost effective and efficient to deliver using advanced digital technology and outcomes driven analytical models.
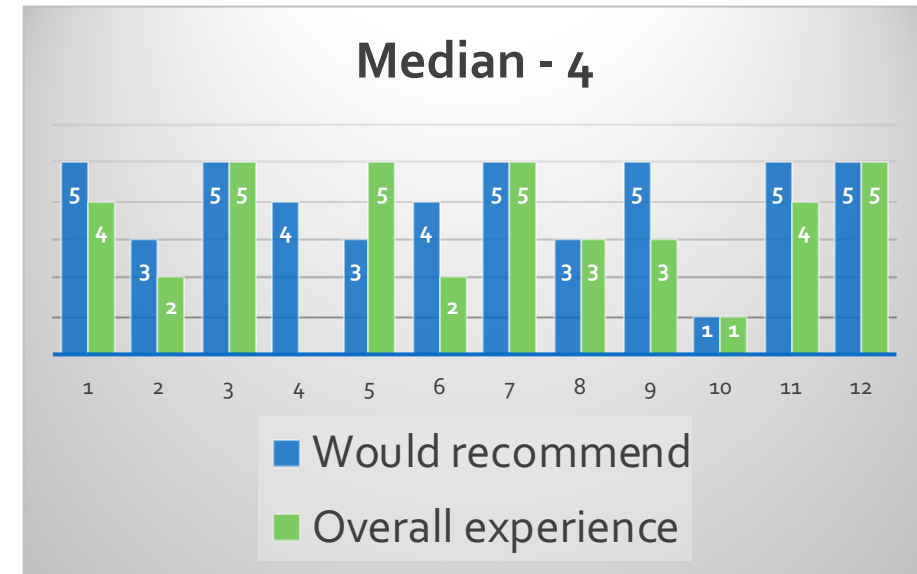
"Once you get going, it's not too difficult to use the system"

"Great ideas having a coach, background, demonstrations and coaching about what to do"

"I think it'd be very beneficial down the road for people looking to exercise from a distance"

"The program is logical and easy to follow"

"The idea of a repetition counter to keep track is very good, and so is scoring how well the activity has been completed. With practice, I would probably use the app more."

Median - 4

Would recommend
Overall experience

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SCIENCE
Department of Kinesiology

McMaster
University

Target Customers

Technology to extend treatment beyond the walls of the facility.

Hospitals
- Pre/post op care for MSK, Neuro, Cognitive & Cardiac issues

LTC Facilities
- Patient monitoring and elderly care related to falls.

Home Care Service
– In home rehab, patient monitoring and elderly care.

Health Plans
-Health Insurance /Corporate Wellness programs

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Thank You

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